



**ENGINEERING OPERATIONS COMMITTEE
MEETING MINUTES
December 9, 1994, 9:00 A.M.
EXECUTIVE CONFERENCE ROOM**

Present:	R. A. Welke	C. J. Arnold	J. Kanillopoulos (R. E. Maki)
	G. D. Taylor	C. Roberts	G. D. Dobie
	L. A. Kinney	L. R. Brown	J. W. Reincke
	J. D. O'Doherty	J. Erickson, FHWA	G. Erickson (P. Miller)

Guests:	W. C. Turner	I. Patel	M. Van Port Fleet
	J. Kelsch	D. Vandenberg	

OLD BUSINESS

1. Approval of the Minutes of the November 3, 1994, Meeting - R. Welke

Minutes were approved as written.

General Discussion - R. Welke

R. Welke expressed a need for the Bureau to refocus on the various programs and establish standards of operation - - We need to look more at our customers, explore opportunities to be more innovative in developing concepts which will facilitate our contracting process and expedite the construction of projects, while meeting the customer's needs. As an example, in urban areas there is a need for improved construction procedures which totally address the whole issue of maintaining traffic during construction in highly congested corridors.

ACTION: Jerry Dobie and Robert Maki, Engineers of Construction and Traffic & Safety, respectfully, were given a charge to co-chair a committee to explore, review and submit a report of recommendations which address maintaining traffic on rubberizing and overlaying type construction projects. The finalized recommendation will be submitted to R. Welke.

2. Pavement Type Selection for EOC Approval, I-94 Reconstruction, from West of Friday Road Easterly to the East of County Road 687 (Eastbound 10 Miles, Westbound 5 Miles) District 7 - C. Arnold/I. Patel

This item was discussed and tabled at the November 3, 1994, EOC meeting. As a follow-up, R. Welke to convene a meeting with District 7 to review project details and address district concerns.

Discussion continued to be centered around the various construction and funding options under consideration by District 7.

ACTION: District 7 will meet with John Kelsch and appropriate staff to develop a strategy that addresses all outstanding issues pertaining to the project. A proposed plan, outlining the plan for the final roadway design, will be prepared and submitted for EOC review.

NEW BUSINESS

1. **Research Report No. R-1327, Research Project 86 G-267 - J. Reincke**

The Final Report for Research Report No. R-1327, Research 86-G-267, entitled "Concrete Pavement Restoration" was presented and discussed. The objective of the experimental work was to evaluate the field performance of various repair techniques and to determine the merit of restoring concrete pavements to substantially increase their service life.

The experimental research investigated and evaluated the following restoration procedures:

- 1) Full-depth lane repairs with grouted-in-place epoxy coated dowels.
- 2) Full-depth lane repairs with grouted-in-place epoxy coated No. 10 deformed bars.
- 3) Partial lane width full-depth repairs at the intersection of the transverse and longitudinal centerline joints.
- 4) Partial depth repair of pop-outs and spalls along the joint grooves.
- 5) Routing and sealing of transverse cracks.
- 6) Removing existing neoprene seals and resealing with a silicone sealant.
- 7) Resawing and resealing the longitudinal centerline joint.

The findings and conclusions for each restoration procedure are summarized in the report. Several of the repair procedures, with varying degrees of modification, have been adopted as standards by the department.

ACTION: The final report was approved as modified, with editorial comments, by the EOC. John O'Doherty, Engineer of Maintenance, was given the task to outline the program cost for maintaining new concrete pavement as part of our maintenance program. A report will be submitted to the EOC for consideration at the January, 1995, scheduled meeting. M&T will distribute a summary of the report to Maintenance personnel, contract and direct forces.

2. **Summary of Pipe Study - M. Van Port Fleet**

An overview of the consultants, NTH consultants, Ltd., pipe study report and the Pipe Selection Task Group (PSTG) conclusions and recommendations were presented.

ACTION: The EOC tentatively approved the conclusions and recommendations, with the following stipulations.

1. The pipe study needs various minor editorial changes. A final copy of the study will be made available to the Michigan Road Builders Association (MRBA) on January 3, 1995.
2. Several of the PSTG's recommendations should include input from the MRBA. The MRBA will be requested to provide members to sit on a joint committee to discuss proposed changes to the specifications, in particular for Items 1, 2 and 4 of the PSTG recommendations.
3. The joint committee's recommendations will be presented to the EOC for their review at the February meeting, or at a special meeting scheduled at the end of January to discuss the pipe specification changes.

3. **Summary of Pipe Task Group Activities - M. Van Port Fleet**

In August of 1992, the Engineering Operations Committee (EOC) approved the formation of a Pipe Selection Task Group (PSTG) to develop recommendations concerning equal alternates for pipe in various situations encountered by the department. The Task Group would then submit its recommendations to the EOC for approval as Department Policy. Since its inception the PSTG has reviewed many topos and has had several meeting with representatives of the three major pipe industries; concrete, corrugated metal, and polyethylene pipe manufacturers.

An overview of the PSTG report and Recommendations For Pipe Alternatives on State Trunkline Projects was presented for EOC approval.

ACTION: The EOC accepted and approved the PSTG report as presented.

4. **Modification of Review Procedures for Special Provisions - C. Arnold**

A discussion and review of the proposed modification of review procedures for special provisions lead to several comments and suggestions for revisions.

ACTION: EOC approved the proposed modifications subject to the inclusion of comments and revisions discussed.

(Signed copy on file at M&T)
Calvin Roberts, Secretary
Engineering Operations Committee

cc EOC Members
District Engineers

G. H. Grove	G. J. McCarthy	L. K. Heinig	T. Adams
E. D. Winkler	D. L. Coleman	W. C. Turner	D. L. Smiley
L. W. Martin	H. J. Nyquist	R. W. Muller	R. E. Nordlund
L. E. DeFrain	G. L. Mitchell	J. E. Norton	C. W. Whiteside
I. B. Patel	C. G. Cantrell	G. H. Gallup	A. G. Ostensen
J. Kelsch	G. J. Bukoski	R. D. Till	J. Becsey